



case STUDY

United States Military Base

Situation

A United States military base was being fined an average of \$38,000 per month by the EPA for emissions violations from its vehicles and machinery. Any decrease in emissions would result in major reductions in monthly fines and would save the base a significant amount of money that could be used elsewhere. They were also looking for a way to increase the fuel efficiency of its base vehicles, ranging from tractors to vans, to trucks.

CLEANBOOST™ SOLUTION

The base operations group selected nine different vehicles for the fuel efficiency test and four different machines for the emissions test. The vehicles ranged in age and type and the machines. Baseline miles per gallon and emissions readings were taken prior to the test period. The four different emissions readings were carbon monoxide, nitric oxide, nitrogen dioxide, and NOx emissions. After the baseline readings, CleanBoost™ combustion catalyst was added to the vehicles and machines for a two-month test period, with data being collected twice a week.

Performance Testing and Results

The results after the testing period were dramatic and not only significantly increased fuel efficiency but it is estimated that once implemented across the entire base, it will completely eliminate the monthly EPA emissions fines.

The average fuel efficiency increase across the nine vehicles was 19%, with one Peterbuilt OTR Tractor seeing an increase of 60%. Emissions saw significant decreases, with carbon monoxide falling over 90% and NOx particulate emissions falling about 27%.

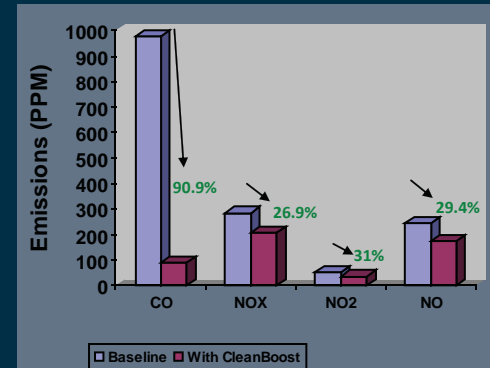
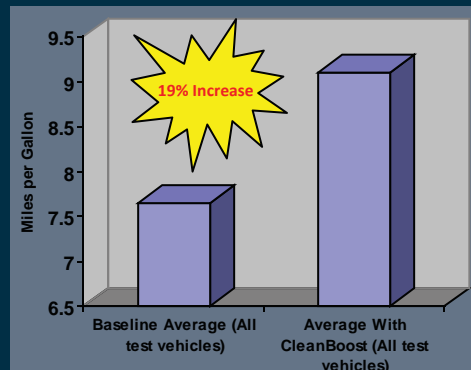
SUMMARY

- A United States military base saw dramatic increases in fuel efficiency in a variety of base vehicles, to an average of 19%.
- Emissions decreased in various other vehicles and generators, including a 90% decrease in carbon monoxide and a 27% reduction in NOx emissions.

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FUEL ECONOMY TEST RESULTS WITH CLEANBOOST™



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